Mouse CCL19/MIP-3β Antibody

Monoclonal Rat IgG_{2A} Clone # 87102

Catalog Number: MAB880

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse CCL19/MIP-3β in ELISAs and Western blots. In Western blots, no cross-reactivity with recombinant human CCL1, 2, 3, 4, 5, 7, 8, 11, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 28, recombinant mouse CCL1, 2, 3, 4, 5, 6, 7, 9/10, 11, 12, 17, 20, 21, 22, 24, 25, 27 or recombinant rat CCL20 is observed.
Source	Monoclonal Rat IgG_{2A} Clone # 87102
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant mouse CCL19/MIP-3β Gly26-Val107-Leu-Glu (Ser108LeuGlu) Accession # Q548P0
Endotoxin Level	<0.10 EU per 1 µg of the antibody by the LAL method.
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

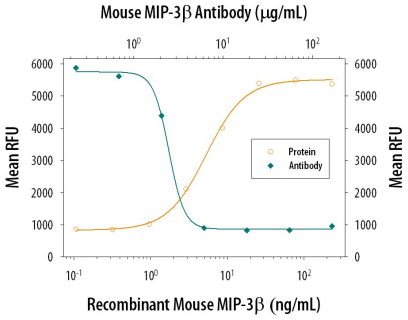
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Western Blot	1 µg/mL	Recombinant Mouse CCL19/MIP-3β (Catalog # 440-M3) under non-reducing conditions only
Mouse CCL19/MIP-3β Sandwich Immunoassay		**Reagent**
ELISA Capture	2-8 µg/mL	Mouse CCL19/MIP-3β Antibody (Catalog # MAB880)
ELISA Detection	0.1-0.4 µg/mL	Mouse CCL19/MIP-3β Biotinylated Antibody (Catalog # BAF880)
Standard		Recombinant Mouse CCL19/MIP-3β (Catalog # 440-M3)
Neutralization	Measured by its ability to neutralize CCL19/MIP-3β-induced chemotaxis in the BaF3 mouse pro-B cell line transfected with human CCR7. The Neutralization Dose (ND_{50}) is typically 3-15 µg/mL in the presence of 50 ng/mL Recombinant Mouse CCL19/MIP-3β.	

DATA

Neutralization



Chemotaxis Induced by CCL19/MIP-3β and Neutralization by Mouse CCL19/MIP-3β Antibody. Recombinant Mouse CCL19/MIP-3β (Catalog # 440-M3) chemoattracts the BaF3 mouse pro-B cell line transfected with human CCR7 in a dose-dependent manner (orange line). The amount of cells that migrated through to the lower chemotaxis chamber was measured by Resazurin (Catalog # AR002). Chemotaxis elicited by Recombinant Mouse CCL19/MIP-3β (50 ng/mL) is neutralized (green line) by increasing concentrations of Rat Anti-Mouse CCL19/MIP-3β Monoclonal Antibody (Catalog # MAB880). The ND_{50} is typically 3-15 µg/mL.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

bio-techne
bio-techne.com
Global info@bio-techne.com techsupport@bio-techne.com
North America TEL 800 343 7475 Europe | Middle East | Africa TEL +44 (0)1235 529449
China info.cn@bio-techne.com TEL +86 (21) 52380373
Rest of World bio-techne.com/find-us/distributors TEL +1 612 379 2956

Mouse CCL19/MIP-3β Antibody

Monoclonal Rat IgG_{2A} Clone # 87102

Catalog Number: MAB880

BACKGROUND

CCL19/MIP-3β, also known as ELC (EBI1-Ligand Chemokine), is a β chemokine that binds specifically to the chemokine receptor CCR7/EBI-1/BLR-2. Mouse (human) CCL19 cDNA encodes a 108 (98) amino acid precursor protein with a predicted 25 (21) aa signal peptide that is cleaved to form the 83 (77) aa mature secreted protein. CCL19 is distantly related to other β chemokines (20 - 30% aa sequence identity). Mouse CCL19 shares 83% aa sequence homology with human CCL19. CCL19 has been shown to be constitutively expressed in various lymphoid tissues (including thymus, lymph nodes, appendix, and spleen) in dendritic cells within the T-cell zone. The expression of CCL19 is down-regulated by the anti-inflammatory cytokine IL-10. Recombinant CCL19 has been shown to be chemotactic for T-cells and B-cells. The CCL19 receptor (CCR-7/EBI-1/BLR-2) is expressed in various lymphoid tissues and activated B and T lymphocytes. CCR7 is also strongly up-regulated in B-cells infected with Epstein-Barr virus and T-cells infected with herpesvirus 6 or 7.

References:

1. Kim, C.H. *et al.* (1998) J. Immunol. **160**:2418.
2. Ngo, V.N. *et al.* (1998) J. Exp. Med. **188**:181.
3. Rossi, D.L. *et al.* (1997) J. Immunol. **158**:1033.
4. Yoshida, R. *et al.* (1997) J. Biol. Chem. **272**:13803.

bio-techne
bio-techne.com
Global info@bio-techne.com techsupport@bio-techne.com
North America TEL 800 343 7475 Europe | Middle East | Africa TEL +44 (0)1235 529449
China info.cn@bio-techne.com TEL +86 (21) 52380373
Rest of World bio-techne.com/find-us/distributors TEL +1 612 379 2956